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**TITLE:** OPTICAL DISK AND ITS  
IDENTIFICATION DEVICE  
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**INVENTOR-INFORMATION:**

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**ABSTRACT:**

**PROBLEM TO BE SOLVED:** To make it difficult to manufacture illegal copies of a disk by adding first information to it based on the arrangement of barcode-formed grooves and also adding second information to it based on the modulation of the grooves themselves in accordance with their depths, directions, and groove bottoms.

**SOLUTION:** This optical disk 1 has mainly an

identification area forming barcode-formed grooves 4 and data area for recording data for recording data. The part of the identification area forming the barcode-formed grooves is composed of an aluminum layer 8 and an overcoat layer 9 successively laminated on a disk substrate. In this aluminum layer are formed non-erasable permanent grooves 4 transformed from ID information such as the production lot No. and serial No. of the disk. Such grooves 4 can be formed, for example, by irradiating the aluminum layer 8 in the identification area with a laser beam controlled ON and OFF corresponding to the barcode pattern while rotating the disk after a manufacture of the disk.

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